



User Guide

ZYMO The Parts Washer

Operation

1-CLEANING: A 3 stage process involving mechanical, chemical & thermal interaction with bioremediation acting to regenerate the cleaner.

The Surfzyme[®] HD biocompatible cleaner is dispensed either through a manual brush or with a spray gun. This provides mechanical agitation, while the Surfzyme[®] HD reduces surface tension which is enhanced by thermal benefits of using a heated fluid. During the degreasing process the fluid is bio-regulated by microbes obtained from use of the Surfzyme[®] Microbial Gel Capsule, which cleans the Surfzyme[®] HD by biodegrading the oil and grease components – this is sometimes referred to as a “Self-cleaning cleaner”.

2-BIOREMEDIATION: Requires 5 elements - oxygen, water, heat, nutrients and hydrocarbons. Natural microbes are responsible for the bioremediation of oil and grease. The presence of oxygen, water (neutral pH) and heat in the bioremediation process combined with nutrients (phosphorus and nitrogen) allows the hydrocarbon chain to be broken down. The reaction which results in the complete transformation of these elements into water and carbon dioxide is known as bioremediation. Microbes need oil and grease for their growth. The Surfzyme[®] HD cleaner is bio-regulated by the microbes contained in the Surfzyme[®] Microbial Gel Capsule and when such microbes come into direct contact with the hydrocarbon chain in the presence of oxygen, water (neutral pH) and heat it results in bioremediation. This is a continuous cycle, where the Surfzyme[®] HD cleaning solution is constantly purified and regulated, hence this is sometimes referred to as a “Self-cleaning cleaner”.

Guarantee

ZYMO[®] The Parts Washer has been thoroughly tested before shipping. The guarantee covers all manufacturing defects for 1 year from the delivery date plus the cost of parts and labour. Shipping costs will be the responsibility of the customer. This guarantee is not valid if the ZYMO[®] Parts Washer has been tampered with prior to sending it back to the distributor for inspection. Damage due to overloading, improper use, application of unauthorised products, shocks, accidents, use of the machine for purposes other than cleaning parts, are all excluded from the guarantee. The ZYMO[®] Parts Washer can be locally repaired following written consent from the distributor. This consent will be given after examination of the specific case by the distributor. The guarantee certificate has to be completed by the salesman when delivering the unit. In case of complaint the customer copy must be sent with the unit. Without this copy the guarantee will be invalid.

Start

1. Lift the stainless steel grill and insert the permanent filter.
2. Replace the grill and attach all the accessories.
3. Retrieve the **4 SURFZYME[®] MICROBIAL GEL CAPSULES** from under the cap of the **SURFZYME[®] HD-1** and place them in the filter.
4. Fill with 80 litres of **SURFZYME[®] HD-1**.
5. Replace the grill.
6. Connect the transformer to the **ZYMO[®] Parts Washer**.
7. Connect to the power supply (240 volts).
8. Allow to heat up for 3-4 hours and the **ZYMO[®] Parts Washer** is then ready to use.
(A low level sensor is fitted to prevent over heating).

Use and maintenance

1. Open one of the taps.
2. Push the pedal to start.
3. Use either the brush or the spray gun.
4. Push the pedal to stop the pump.
5. Add more fluid when necessary (A low level sensor automatically sounds an alarm when the volume of fluid has decreased by 25%).
6. **Add SURFZYME[®] HD-2**
7. Lift the grill. Retrieve the capsule from under the cap of the 20 litre can and place it in the filter. Pour the fluid into the **ZYMO[®] Parts Washer** and replace the grill.
8. Solid waste must be regularly removed from grill, filter and body of the **ZYMO[®] Parts Washer**.

Annual maintenance

1. Switch off the **ZYMO[®] Parts Washer** by removing the electrical plug.
2. Remove the grill, filter and grill holder.
3. Skim off the brown liquid foam from the surface of the liquid (biomass).
4. Drain the **ZYMO[®] Parts Washer** and retain the liquid.
5. Clean the interior body with water.
6. Clean the pump.
7. Check that the pipes and electrical wiring are in good condition.
8. Fill the **ZYMO[®] Parts Washer** with the retained liquid. Add more **SURFZYME[®] HD 2** if necessary.
9. **NOTE (If all 80 litres of fluid need to be changed, re-fill with SURFZYME[®] HD 1 and 4 MICROBIAL GEL CAPSULES)**
10. Replace the holder, filter and grill.
11. Switch on the **ZYMO[®] Parts Washer**.

Safety Requirements

1. Never switch on a damaged ZYMO[®] Parts Washer. Wait until your distributors Representative has checked it.
2. Always wear safety goggles and gloves.
3. Never pour water, solvents, detergents, bactericides, disinfectants or colouring matter into the ZYMO[®] Parts Washer.
4. Only use the machine as outlined in the user guide.

Possible failures

The liquid stays cold.	Check the power supply. Check if the liquid is above the level of the sensor. Check the cleanliness of the sensor.
After pushing on the pedal there is no liquid supply.	Check the pedal switch. Check the pump. Check the pipes and taps. Check the fuses.
Cleaning action reduces.	Check the temperature of the liquid. Check if any re-filling operation (replacement fluid and capsule) has been carried out correctly. Check for any external pollution (solvent, biocide etc.).
Thermostat does not function correctly.	Check the level of the liquid. If the liquid is too warm, switch off the ZYMO [®] Parts Washer.

If the failure persists contact your Distributor.